```
ANSWER 1 OF 1 CA COPYRIGHT 2009 ACS on STN
T. 4
```

58:72100 CA AN

OREF 58:12282d-f

- ED Entered STN: 22 Apr 2001
- TI Preparation of fused cements by the V. V. Serov conversion method

AU Krylov, V. F.

SO Novoe v Khim, i Tekhnol. Tsementa, Vses. Khim, Obshchestvo im, D. I. Mendeleeva, Tr. Soveshch., Moscow (1962), 1961, 149-54

DT Journal LA Unavailable

- 22 (Cement and Concrete Products) CC cf. CA 32, 76937. Serov's conversion method for making a "fused"

portland cement from liquid metal slag consists of

blowing a hot (700-800°) fuel oil-O

mixture (containing 26-8% O) into a liquid slag (1300-50°). This raises the temperature in the convertor up to 2000° and leads to an intensive mixing of the mass; facilitates the dissoln. of the solid CaO, which is added in amts. of 70-5%, based on the weight of the slag. The clinker melt has a uniform chemical and mineralogical composition and contains 60-3% CaO, as compared with 46-8% in the initial slag used. Data are tabulated on the chemical and mineralogical compns. of "fused" portland cements obtained from various slags at a semicom. pilot plant. Several kinds of high-quality alumina cements, containing various amts. of Fe oxides and in some cases TiO2, were also obtained and data on their composition and mech. properties are tabulated. A high tensile strength and high compressive

strength titania-alumina cement (SiO2 2.5-4, Al2O3 40-45, Fe2O3 + FeO 3-4, CaO 38-40, and TiO2 5-8%) was also obtained from titania-alumina

slag formed in the production of ferrotitanium. At a comparatively high Fe content, it contains practically no S; therefore it is particularly suitable for heat-resistant concrete and heat-resistant catalysts. Cement, hydraulic or structural

(from gypsum and slag, properties of, slag composition and) Cement, hydraulic or structural

(from slags and hot fuel oil-O mixture)

13397-24-5, Gypsum

(cement from slag and, properties of, slag composition and) 12719-90-3P, Iron alloys, titanium-

RL: PREP (Preparation) (manufacture of, slags from, cement manufacture from)

12719-90-3P, Titanium allovs, iron-

RL: PREP (Preparation)

(slags from, cement manufacture from)